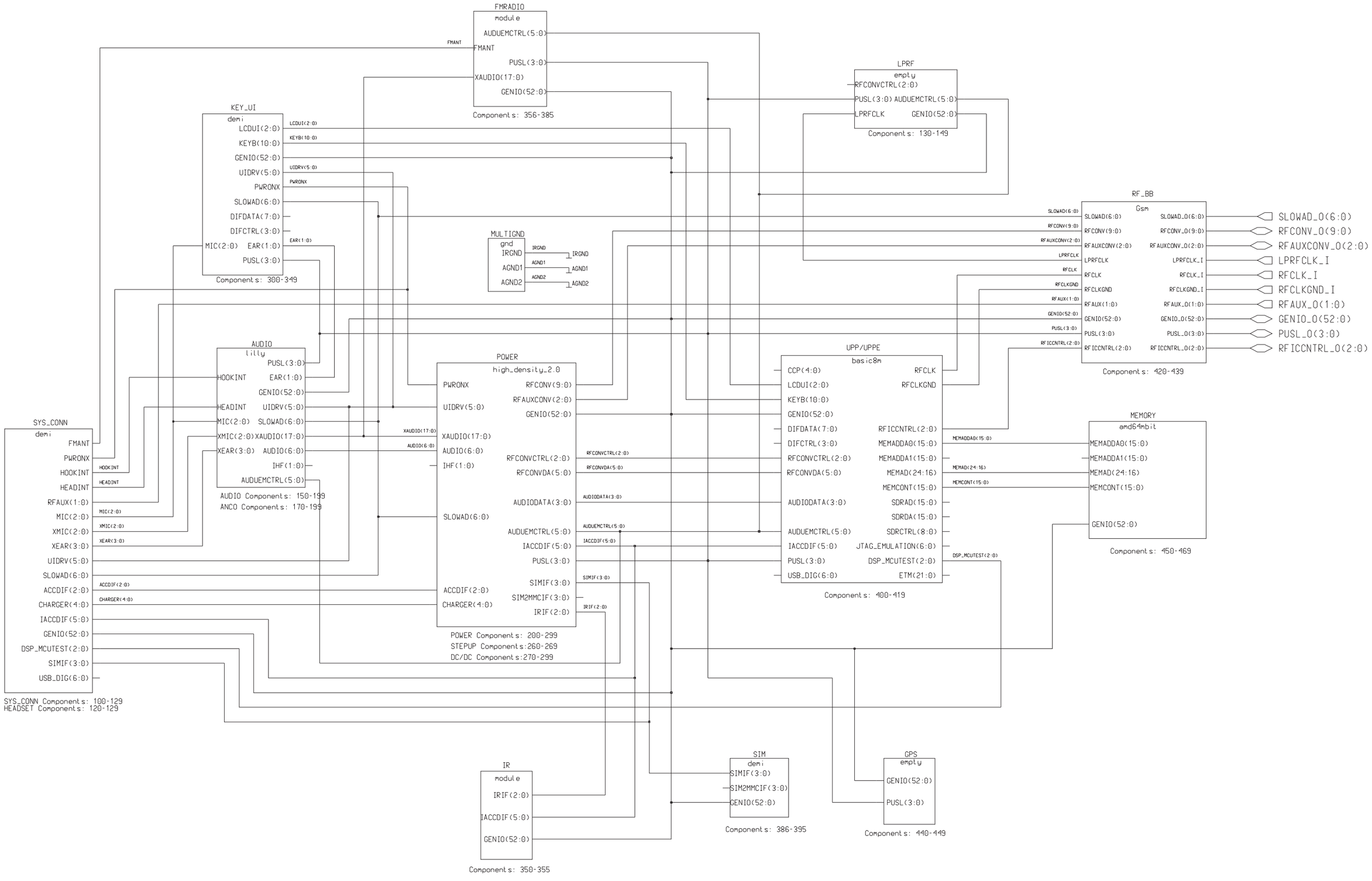
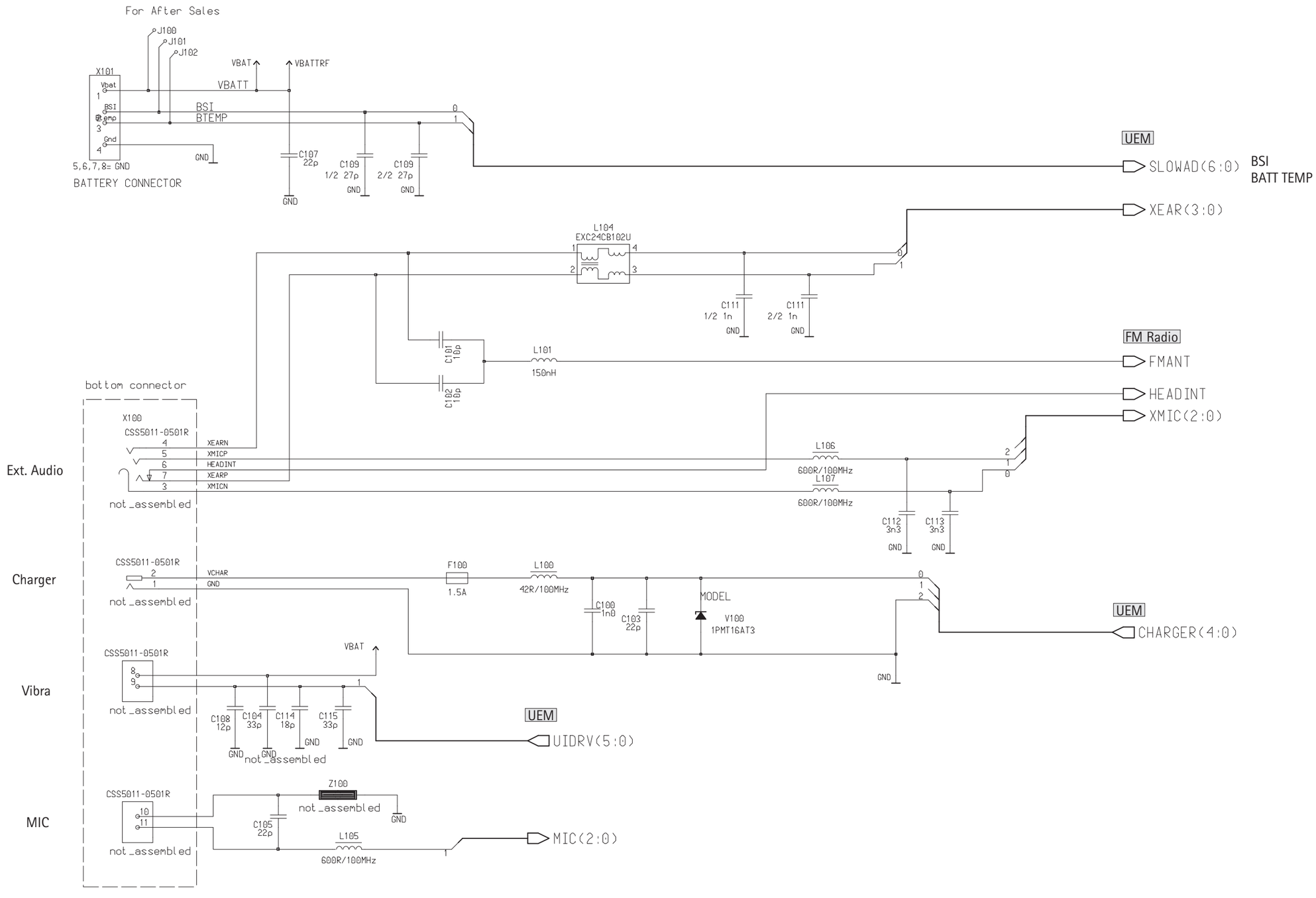

FMRADIO
module
AUDUEMCTRL(5:0)
FMANT
PUSL(3:0)
XAUDIO(17:0)
GENIO(52:0)
Components: 356-385
LPRF
empty
RFCONVCTRL(2:0)
PUSL(3:0)
AUDUEMCTRL(5:0)
LPRFCLK
GENIO(52:0)
Components: 130-149
KEY_UI
demi
LCDUI(2:0)
KEYB(10:0)
GENIO(52:0)
UIDRV(5:0)
PWRONX
SLOWAD(6:0)
DIFDATA(7:0)
DIFCTRL(3:0)
MIC(2:0)
EAR(1:0)
PUSL(3:0)
Components: 300-349
MULTIGND
gnd
IRGND
AGND1
AGND2
RF_BB
Gsm
SLOWAD(6:0)
RFCONV(9:0)
RFAUXCONV(2:0)
LPRFCLK
RFCLK
RFCLKGND
RFAUX(1:0)
GENIO(52:0)
PUSL(3:0)
RFICCNTRL(2:0)
SLOWAD_O(6:0)
RFCONV_O(9:0)
RFAUXCONV_O(2:0)
LPRFCLK_I
RFCLK_I
RFCLKGND_I
RFAUX_O(1:0)
GENIO_O(52:0)
PUSL_O(3:0)
RFICCNTRL_O(2:0)
Components: 420-439
AUDIO
lilly
PUSL(3:0)
HOOKINT
EAR(1:0)
GENIO(52:0)
HEADINT
UIDRV(5:0)
MIC(2:0)
SLOWAD(6:0)
XMIC(2:0)
XAUDIO(17:0)
XEAR(3:0)
AUDIO(6:0)
IHF(1:0)
AUDUEMCTRL(5:0)
AUDIO Components: 150-199
ANCO Components: 170-199
POWER
high_density_2.0
PWRONX
UIDRV(5:0)
XAUDIO(17:0)
AUDIO(6:0)
IHF(1:0)
SLOWAD(6:0)
ACCDIF(2:0)
CHARGER(4:0)
RFCONV(9:0)
RFAUXCONV(2:0)
GENIO(52:0)
RFCONVCTRL(2:0)
RFCONVDA(5:0)
AUDIODATA(3:0)
AUDUEMCTRL(5:0)
IACCDIF(5:0)
PUSL(3:0)
SIMIF(3:0)
SIM2MMCIF(3:0)
IRIF(2:0)
POWER Components: 200-299
STEPUP Components:260-269
DC/DC Components:270-299
UPP/UPPE
basic8m
CCP(4:0)
LCDUI(2:0)
KEYB(10:0)
GENIO(52:0)
DIFDATA(7:0)
DIFCTRL(3:0)
RFCONVCTRL(2:0)
RFCONVDA(5:0)
AUDIODATA(3:0)
AUDUEMCTRL(5:0)
IACCDIF(5:0)
PUSL(3:0)
USB_DIG(6:0)
RFCLK
RFCLKGND
RFICCNTRL(2:0)
MEMADDA0(15:0)
MEMADDA1(15:0)
MEMAD(24:16)
MEMCONT(15:0)
SDRAD(15:0)
SDRDA(15:0)
SDRCTRL(8:0)
JTAG_EMULATION(6:0)
DSP_MCUTEST(2:0)
ETM(21:0)
Components: 400-419
MEMORY
amd64mbit
MEMADDA0(15:0)
MEMADDA1(15:0)
MEMAD(24:16)
MEMCONT(15:0)
GENIO(52:0)
Components: 450-469
SYS_CONN
demi
FMANT
PWRONX
HOOKINT
HEADINT
RFAUX(1:0)
MIC(2:0)
XMIC(2:0)
XEAR(3:0)
UIDRV(5:0)
SLOWAD(6:0)
ACCDIF(2:0)
CHARGER(4:0)
IACCDIF(5:0)
GENIO(52:0)
DSP_MCUTEST(2:0)
SIMIF(3:0)
USB_DIG(6:0)
SYS_CONN Components: 100-129
HEADSET Components: 120-129
IR
module
IRIF(2:0)
IACCDIF(5:0)
GENIO(52:0)
Components: 350-355
SIM
demi
SIMIF(3:0)
SIM2MMCIF(3:0)
GENIO(52:0)
Components: 386-395
GPS
empty
GENIO(52:0)
PUSL(3:0)
Components: 440-449


For After Sales
X101
Vbat
BSI
Temp
Gnd
J100
J101
J102
VBAT
VBATTRF
BSI
BTEMP
GND
5,6,7,8= GND
BATTERY CONNECTOR
C107 22p
C109 1/2 27p
C109 2/2 27p
UEM
SLOWAD(6:0)
BSI
BATT TEMP
XEAR(3:0)
L104 EXC24CB102U
C111 1/2 1n
C111 2/2 1n
FM Radio
C101 10p
C102 10p
L101 150nH
FMANT
HEADINT
XMIC(2:0)
bottom connector
X100
CSS5011-0501R
XEARN
XMICP
HEADINT
XEARP
XMICN
not_assembled
Ext. Audio
L106 600R/100MHz
L107 600R/100MHz
C112 3n3
C113 3n3
Charger
VCHAR
GND
F100 1.5A
L100 42R/100MHz
C100 1n0
C103 22p
MODEL
V100 1PMT16AT3
UEM
CHARGER(4:0)
Vibra
C108 12p
C104 33p
C114 18p
C115 33p
UEM
UIDRV(5:0)
MIC
Z100
C105 22p
L105 600R/100MHz
MIC(2:0)

LCD connector

X300

"VRES" "VCS" "VSS" "SDA" "SCLK" "VDD1" "VDD" "VOUT"

VIO VFLASH1

C302 1u0 C301 1u0 C303 1/2 100n C303 2/2 100n

not_assembled

UPP GENIO(5:2:0)

UPP LCDUI(2:0)

Side keys

S301 UP S302 DOWN

B-TO-B CONNECTOR

X303

Flip open/close

ROW4 ROW3 COL2 ROW2 COL1 ROW0 ROW1 COL3 COL4

Unused AD inputs connected to common 100k pull-up

D200 ← SLOWAD(6:0)

C319 1n0

VBACK not_assembled R310 3M3

SMD backup battery G300 3V3 C309 22p R311 100k

Z301 EMIF10-1K010F1

IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8 IN9 IN10 GND OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8 OUT9 OUT10

S4 S3 R1 R0 S1 S2 R2 R3 R4 S0

UPP KEYB(10:0)

VBAT R304 10R PUMT1 V300 R306 14V/46V

R8521S-30TE61 V329 PUMT1 V300 PUMT1 V301 R307 15R

CL-270N8-D-T V324 V325 V326 V327

R305 470R

UEM UIDRV(5:0)

CALL LED

C308 10n B301

C306 27p C307 18p

UEM AUDIO(6:0)

'EARP' "EARN" "MIC1N" "MIC1P" "MICB1"

"Close to UEM"

R164 1/2 22R R164 2/2 22R

C151 2x33n 1/2 33n C151 2x33n 2/2 33n R157 2x2k2 C154 1n0 2k2 R152

C168 27p C166 100n

L151 EXC24CB102U

"EARP" "EARN" "MICN" "MICP"

B302 "DCT3 SPEAKER"

C160 1/2 10n C160 2/2 10n C156 18p C152 27p

MIC(2:0) → X100

'HFCM' "HF" "MIC2N" "MIC2P" "MICB2"

R165 1/2 22R R165 2/2 22R

R156 2x2k2 C153 1/2 1n C153 2/2 1n

C155 2x33n 1/2 33n C155 2x33n 2/2 33n

R166 1k0 R167 1k0 C165 100n

C161 1/2 22p C161 2/2 22p C163 1/2 22p C163 2/2 22p

R159 1/2 VAR16V R159 2/2 VAR16V R161 1/2 VAR16V R161 2/2 VAR16V

R154 10k C158 100n R155 100k C157 1u0

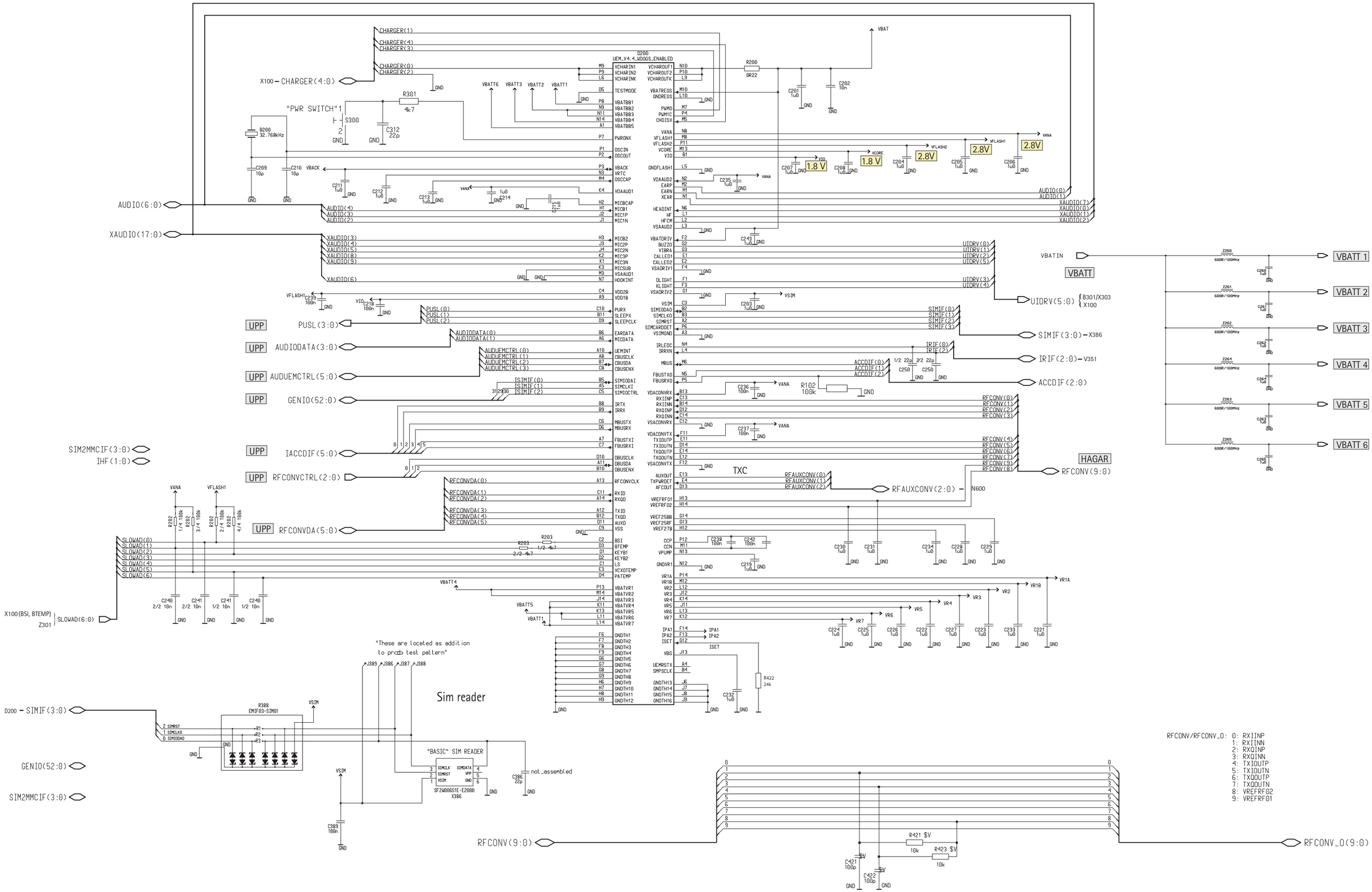
"XEARN" "XEARP" "XMICN" "XMICP"

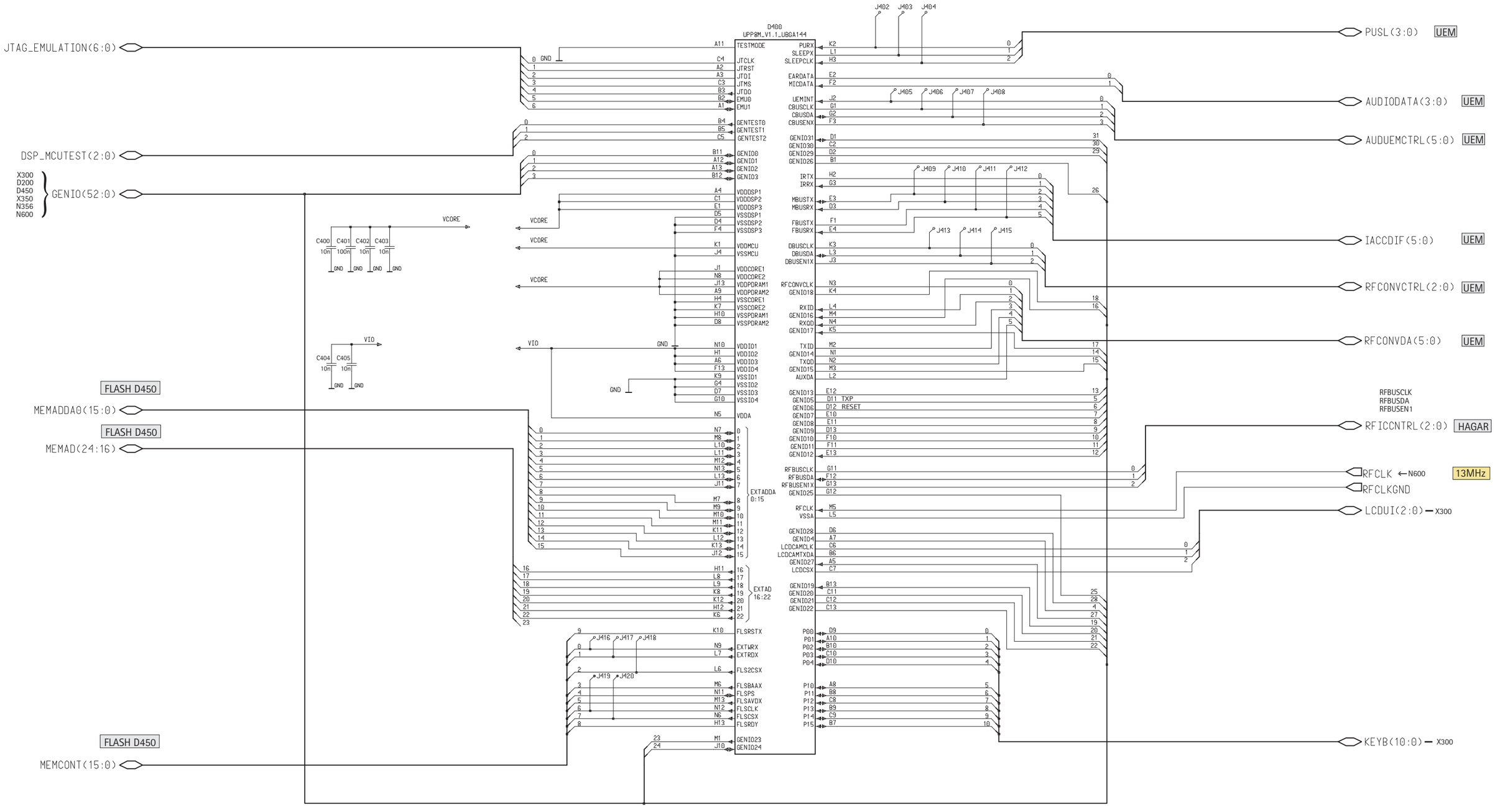
XEAR(3:0) → X100

XMIC(2:0) ← X100

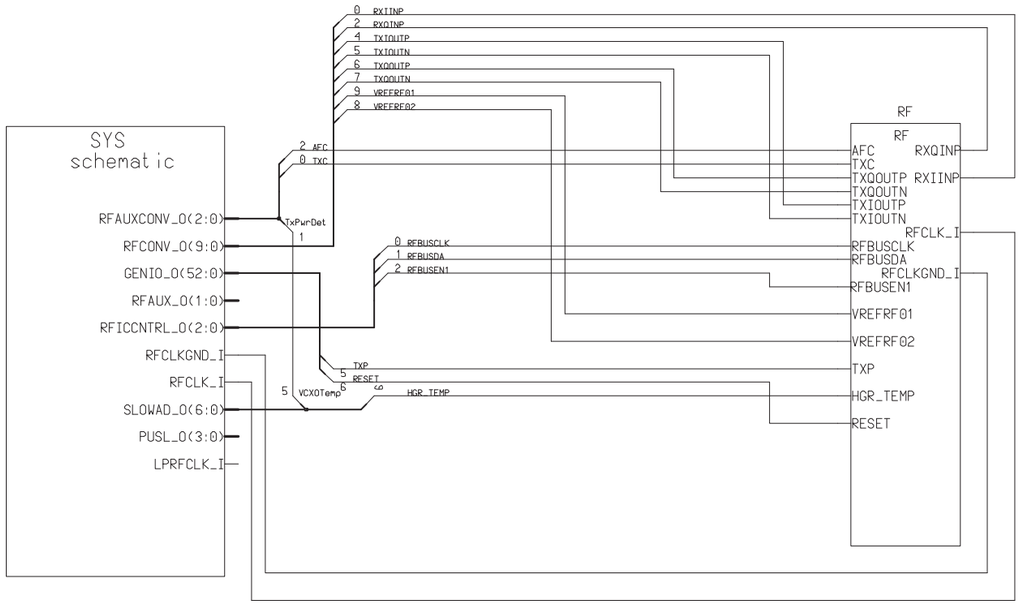
HEADINT ← X100

UEM XAUDIO(17:0)

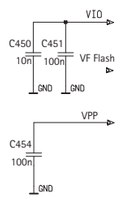

D200
UEM_V4.4_WDOGS_ENABLED
X100 – CHARGER(4:0)
CHARGER(1)
CHARGER(4)
CHARGER(3)
CHARGER(0)
CHARGER(2)
"PWR SWITCH"1
S300
R301
4k7
B200
32.768kHz
C312
22p
C209
18p
C210
18p
VBACK
C211
1u0
C212
1u0
C213
1u0
C214
1u0
C215
100n
VBATT6
VBATT3
VBATT2
VBATT1
R200
0R22
VBAT
C201
1u0
C202
18n
C207
1u0
C208
1u0
C204
1u0
C205
1u0
C206
1u0
1.8 V
2.8V
VIO
VCORE
VFLASH2
VFLASH1
VANA
C235
1u0
C243
1u0
C283
1u0
C236
100n
C237
100n
C238
100n
C242
100n
C219
1u0
C230
1u0
C231
1u0
C234
1u0
C228
1u0
C229
1u0
C224
1u0
C225
1u0
C226
1u0
C222
1u0
C227
1u0
C223
1u0
C233
1u0
C221
1u0
R102
100k
R422
24k
C232
1u0
AUDIO(6:0)
XAUDIO(17:0)
AUDIO(0)
AUDIO(1)
XAUDIO(7)
XAUDIO(0)
XAUDIO(1)
XAUDIO(2)
VFLASH1
C223
100n
VIO
C218
100n
UPP
PUSL(3:0)
AUDIODATA(3:0)
AUDUEMCTRL(5:0)
GENIO(52:0)
SIM2MMCIF(3:0)
IHF(1:0)
IACCDIF(5:0)
RFCONVCTRL(2:0)
RFCONVDA(5:0)
UIDRV(0)
UIDRV(1)
UIDRV(2)
UIDRV(5)
UIDRV(3)
UIDRV(4)
VSIM
SIMIF(0)
SIMIF(1)
SIMIF(2)
SIMIF(3)
IRIF(0)
IRIF(2)
ACCDIF(0)
ACCDIF(1)
ACCDIF(2)
1/2 22p
2/2 22p
C250
RFCONV(0)
RFCONV(1)
RFCONV(2)
RFCONV(3)
RFCONV(4)
RFCONV(5)
RFCONV(6)
RFCONV(7)
RFCONV(8)
RFCONV(9)
HAGAR
TXC
RFAUXCONV(0)
RFAUXCONV(1)
RFAUXCONV(2)
N600
VR1A
VR1B
VR2
VR3
VR4
VR5
VR6
VR7
IPA1
IPA2
ISET
VBATIN
VBATT
VBATT 1
VBATT 2
VBATT 3
VBATT 4
VBATT 5
VBATT 6
Z260
Z261
Z262
Z264
Z263
Z265
600R/100MHz
C260
C261
C262
C264
C263
C265
1u0
B301/X303
X100
SIMIF(3:0) – X386
IRIF(2:0) – V351
ACCDIF(2:0)
RFCONV(9:0)
RFAUXCONV(2:0)
X100(BSI, BTEMP)
Z301
SLOWAD(6:0)
SLOWAD(0)
SLOWAD(1)
SLOWAD(2)
SLOWAD(3)
SLOWAD(4)
SLOWAD(5)
SLOWAD(6)
R202
1/4 100k
R202
3/4 100k
R202
2/4 100k
R202
4/4 100k
R203
1/2 4k7
2/2 4k7
C240
2/2 10n
C241
2/2 10n
C241
1/2 10n
C240
1/2 10n
"These are loceted as addition
to prod test pattern"
Sim reader
D200 – SIMIF(3:0)
R388
EMIF03-SIM01
2 SIMRST
1 SIMCLKO
0 SIMIODAO
J389
J386
J387
J388
"BASIC" SIM READER
SF24B0GS1E-E2000
X386
SIMCLK
SIMRST
VSIM
SIMDATA
VPP
GND
not_assembled
C386
22p
C389
100n
GENIO(52:0)
SIM2MMCIF(3:0)
RFCONV(9:0)
RFCONV_0(9:0)
R421 $V
10k
R423 $V
10k
C421
100p
C422
100p
RFCONV/RFCONV_0:
0: RXIINP
1: RXIINN
2: RXQINP
3: RXQINN
4: TXIOUTP
5: TXIOUTN
6: TXQOUTP
7: TXQOUTN
8: VREFRF02
9: VREFRF01


D400
UPP8M_V1.1_UBGA144
JTAG_EMULATION(6:0)
DSP_MCUTEST(2:0)
X300
D200
D450
X350
N356
N600
GENIO(52:0)
FLASH D450
MEMADDA0(15:0)
FLASH D450
MEMAD(24:16)
FLASH D450
MEMCONT(15:0)
TESTMODE
JTCLK
JTRST
JTDI
JTMS
JTDO
EMU0
EMU1
GENTEST0
GENTEST1
GENTEST2
GENIO0
GENIO1
GENIO2
GENIO3
VDDDSP1
VDDDSP2
VDDDSP3
VSSDSP1
VSSDSP2
VSSDSP3
VDDMCU
VSSMCU
VDDCORE1
VDDCORE2
VDDPDRAM1
VDDPDRAM2
VSSCORE1
VSSCORE2
VSSPDRAM1
VSSPDRAM2
VDDIO1
VDDIO2
VDDIO3
VDDIO4
VSSIO1
VSSIO2
VSSIO3
VSSIO4
VDDA
EXTADDA 0:15
EXTAD 16:22
FLSRSTX
EXTWRX
EXTRDX
FLS2CSX
FLSBAAX
FLSPS
FLSAVDX
FLSCLK
FLSCSX
FLSRDY
GENIO23
GENIO24
PURX
SLEEPX
SLEEPCLK
EARDATA
MICDATA
UEMINT
CBUSCLK
CBUSDA
CBUSENX
GENIO31
GENIO30
GENIO29
GENIO26
IRTX
IRRX
MBUSTX
MBUSRX
FBUSTX
FBUSRX
DBUSCLK
DBUSDA
DBUSEN1X
RFCONVCLK
GENIO18
RXID
GENIO16
RXQD
GENIO17
TXID
GENIO14
TXQD
GENIO15
AUXDA
GENIO13
GENIO5
TXP
GENIO6
RESET
GENIO7
GENIO8
GENIO9
GENIO10
GENIO11
GENIO12
RFBUSCLK
RFBUSDA
RFBUSEN1X
GENIO25
RFCLK
VSSA
GENIO28
GENIO4
LCDCAMCLK
LCDCAMTXDA
GENIO27
LCDCSX
GENIO19
GENIO20
GENIO21
GENIO22
P00
P01
P02
P03
P04
P10
P11
P12
P13
P14
P15
J402
J403
J404
J405
J406
J407
J408
J409
J410
J411
J412
J413
J414
J415
J416
J417
J418
J419
J420
C400
C401
C402
C403
C404
C405
10n
100n
GND
VCORE
VIO
PUSL(3:0) UEM
AUDIODATA(3:0) UEM
AUDUEMCTRL(5:0) UEM
IACCDIF(5:0) UEM
RFCONVCTRL(2:0) UEM
RFCONVDA(5:0) UEM
RFBUSCLK
RFBUSDA
RFBUSEN1
RFICCNTRL(2:0) HAGAR
RFCLK ←N600
13MHz
RFCLKGND
LCDUI(2:0) X300
KEYB(10:0) X300

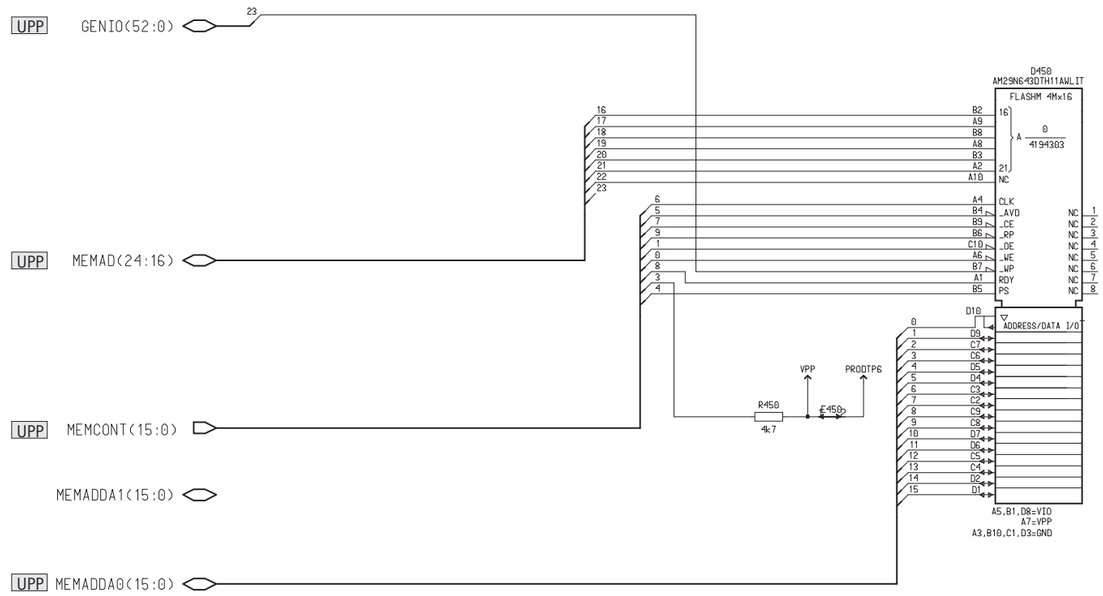
RF & BB



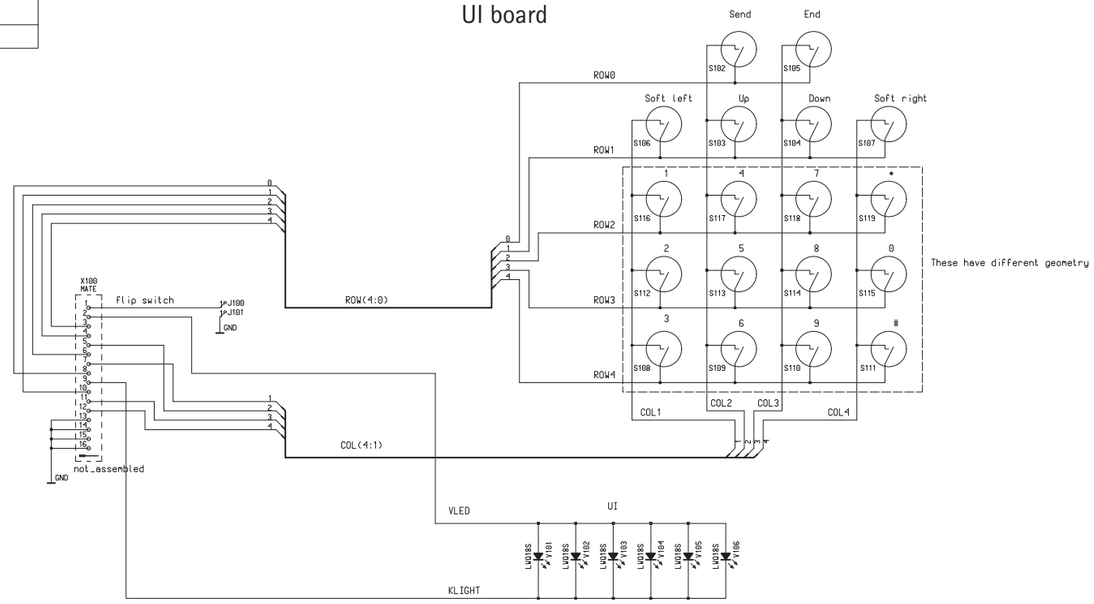
MEMFILTER



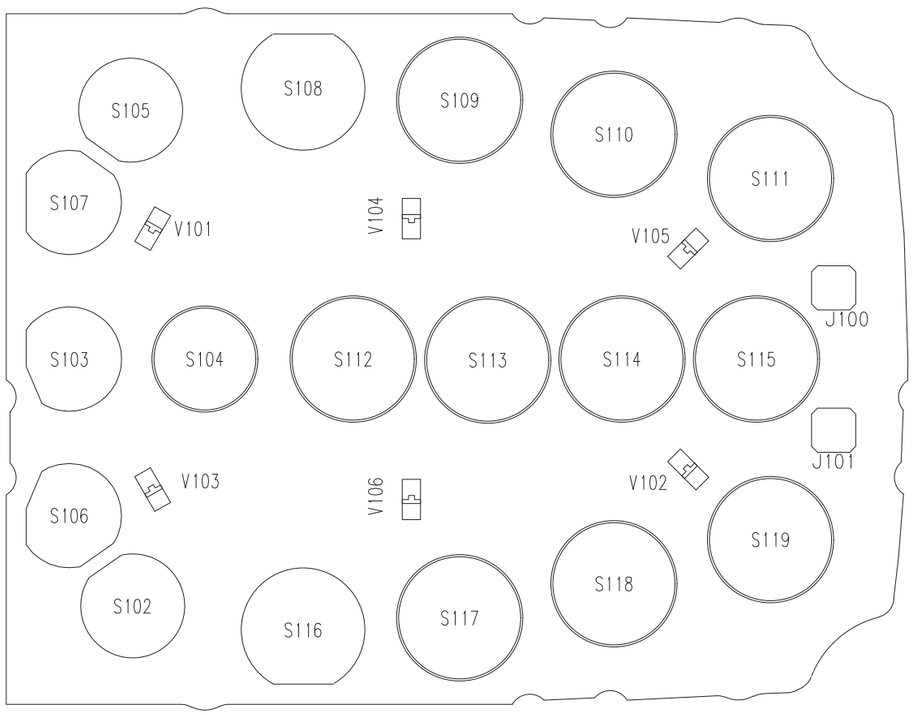
Flash memory



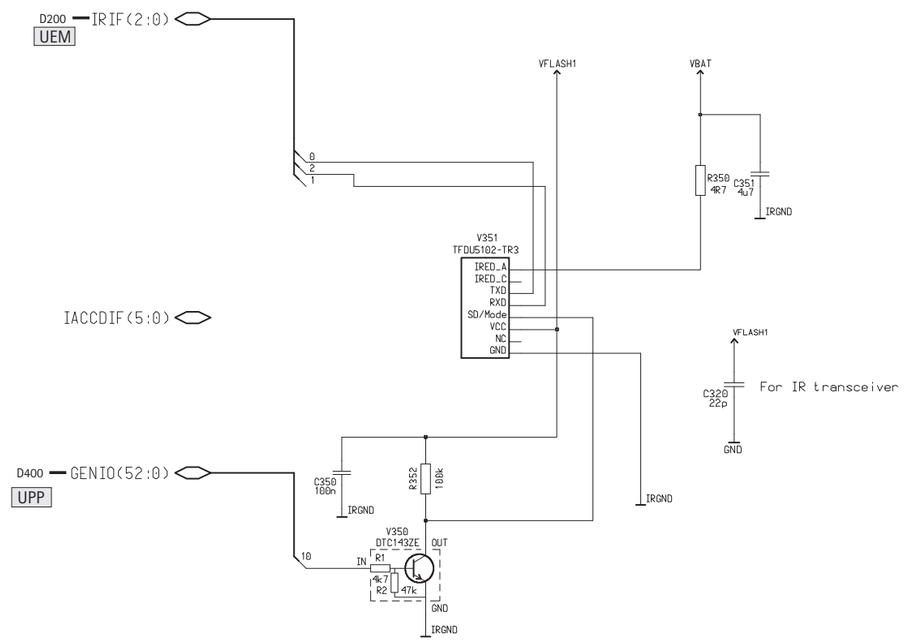
UI board



Layout diagram-LK5



Infrared module



GENIO(52:0)

UPP

1.8 V

VIO

10k R371

10k R365

for after sales

J359 J362 J356 J357 J358

FMClk 3

FMTuneX 27

FMCtrlDa 12

FMCtrlClk 11

FMWrEn 8

C369 1n0 GND

R369 47k GND

not_assembled R382 47k GND

not_assembled R383 47k GND

C374 1n0 GND

R363 10k

SYS-Connector

FMANT

IN OUT Z358 10.7MHz

IN OUT Z356 10.7MHz

N356 TEA5757HL

2.8 V

R370 47k

BBY66-05 V356 V357 BBY66-05

72nH L356

C358 2p2

GND

R358 10k

56nH L357

C359 2p2

C357 1u5 GND

Z357 10.7MHz

R359 68R GND

C360 100n GND

C361 100n GND

C362 100n

30 DATA
29 BUS-CLK
31 WR-EN
47 FM-RFI
46 RFGND2
3 FM-RFO
6 FMOSC/CTI
43 FM-MIX
40 FM-IFI1
38 FM-IFO1
36 FM-IFI2
18 IFGND
19 FMDEM
22 FSI
2 AM-RFI
7 AMOSC
44 AM-MIXER
45 AM-IFI1
39 AM-IFI/O2
48 AGC
12 MPXI
4 RFGND1
5 CGND
24 NC
35 NC

P0 32
P1 33
VSTAB(A) 41
VSTAB(B) 37
VCC1 8
VDDD 25
RIBBLE 1
XTAL 27
DGND 28
TUNE 9
VCC2 23
AFO 11
PILFIL 17
MO/ST 26
LFI 13
VCO 10
AFLO 15
AFRO 16
MUTE 14
AFCN 20
AFCP 21
AFC 34
FM-ON/OFF 42

VFLASH2 VFLASH2

C367 100n GND

C368 100n GND

C363 1u0 GND

2n2 C364 GND

R380 47k GND

C366 1u0 GND

R364 100k GND

82k R360 GND

C370 470n GND

2k2 R361

C371 470n GND

1u0 C365

C375 10n GND

R362 4k7

C372 3n9 GND

R381 100k GND

100n C373

for after sales

J371 8 9

C378 100n GND

XAUDIO(17:0)

UEM

TX 1800
TX 900
RX 1800
RX 900

3420-3840 MHz

TXVGSM

TXVPCN

Not assembled with HAGAR 4

Use 2n2 for cap coupling

Hi/Low mode GSM900

13 MHz Systemclock

RFCONV_0 (9:0)

RFAUXCONV_0 (2:0)

1) TXC at R606 low power level

2) TXC at R606 high power level

3) VTXLO_G at R709 (PA Lo mode, PL 19-7)

4) 13 MHz RFCLK

5) RFBUS_DATA at J2

6) RFBUS_CLK at J3

7) RFBUS_ENA1 at J4

8) TXI/Q at C616/617

9) RX I/Q at C608/611

10) DET (PCN PL0/GSM PL 6)

11) DET (PCN PL 15 GSM PL 19)

12) LNAB_P at R551

13) LNA_P at R558

14) LNAB_G at R501

15) LNA_G at R502

16) VB_DET at C756

17) VTX_B_P at C714

B
B200 - D7
B301 - D1
C
C100 - E7
C101 - F7
C102 - F7
C103 - E7
C105 - F7
C107 - B2
C109 - B2
C111 - F7
C112 - E7
C113 - E7
C115 - A2
C151 - D6
C152 - F7
C154 - D6
C155 - D6
C156 - F7
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